1. An isolated and/or purified polynucleotide comprising one or more of:

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- (a) a polynucleotide encoding a polypeptide comprising SEQ ID NO: 2 or SEQ ID NO: 6;
- (b) a polynucleotide comprising a nucleotide sequence of SEQ ID NO: 1 or SEQ ID NO: 5;
- (c) a polynucleotide, wherein the complement of said polynucleotide hybridizes to the full length coding sequence of (a) or (b) under conditions of moderate stringency;
- (d) a polynucleotide comprising the cDNA of deposit NCIMB 41074; and
- (e) a complement to the polynucleotide of any one of (a), (b), (c), or (d).

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- 2. The polynucleotide of claim 1, wherein said polynucleotide encodes a G-protein coupled receptor (GPCR).
- 3. A vector comprising the polynucleotide of claim 1.

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- 4. A host cell transformed or transfected with the vector of claim 3, wherein said host cell expresses the polynucleotide of claim 1 under conditions sufficient for expression of the polynucleotide.
- 25 5. A process for producing a polypeptide or fragment thereof comprising culturing the transformed/transfected host cell of claim 5 under conditions sufficient for the expression of said polypeptide or fragment.
 - 6. A membrane preparation of a cell of claim 5.

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- 7. An isolated and/or purified polypeptide comprising:
 - (a) an amino acid requence encoded by the polynucleotide of claim 1; or
 - (b) an amino acid sequence as set forth in SEQ ID NO: 2 or SEQ ID NO: 6.



8. A heterologous polypeptide comprising:

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- (a) an amino acid sequence encoded by the polynucleotide of claim 1; or
- (b) an amino acid sequence as set forth in SEQ ID NO: 2 or SEQ ID NO: 6.

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- 9. An antibody against a polypeptide encoded by the polynucleotide of claim 1.
- 10. A compound which modulates the activity of a polypeptide encoded by the polynucleotide of claim 1.

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- 11. A pharmaceutical composition comprising the antibody of claim 9 and one or more pharmaceutically acceptable carriers, diluents, adjuvants, or excipients.
- 12. A pharmaceutical composition comprising the compound of claim 10 and one or more pharmaceutically acceptable carriers, diluents, adjuvants, or excipients.
 - 13. A method for the treatment of a patient in need thereof comprising administering to the patient a therapeutically effective amount of the antibody of claim 9.
- 20 14. A method for the treatment of a patient in need thereof comprising administering to the patient a therapeutically effective amount of the compound of claim 10.
- 15. The method of claim 13 or 14, wherein said patient is in need of treatment for one or more of an allergic disorder, an inflammatory disorder, an immunological disorder, a pulmonary disease, an infectious disease, a neoplastic or myeloproliferative disease, and heart disease.
- 16. The method of claim 15, wherein said allergic disorder is allergic rhinitis or asthma, said pulmonary disease is COPD, or said inflammatory disease is inflammatory bowel disease.

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- 17. The method of claim 14, wherein said compound is a polypeptide and a therapeutically effective amount of the compound is administered by providing to the patient a polynucleotide sequence encoding said compound, wherein said sequence is expressed *in vivo*.
- 18. An animal cell genetically modified to increase expression of the polynucleotide of claim 1, and or comprising a functionally disrupted endogenous gene encoding a polypeptide of claim 7 or 8.
- 10 19. A method for identifying a compound of claim 10 comprising contacting the polypeptide of claim 7 or 8 with a candidate compound and determining whether modulation occurs.
 - 20. The method of claim 19 comprising:
 - (a) contacting a compound with cells expressing the polypeptide of claim 8 on their surface, said polypeptide being associated with a second component capable of providing a detectable signal in response to the binding of a compound to said polypeptide; said contacting being under conditions sufficient to permit binding of compounds to the polypeptide; and
 - (b) identifying a compound capable of polypeptide binding by detecting the signal produced by said second component.
- 25 21. The method of claim 19 comprising
 - (a) contacting (i) a detectable first component known to bind to the polypeptide of claim 8 and (ii) a compound, with cells expressing the polypeptide of claim 8 on their cell surface, said polypeptide being associated with a second component capable of providing a detectable signal in response to the binding of a compound to said polypeptide; said contacting being under conditions sufficient to permit binding of compounds to the polypeptide; and

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- (b) determining whether the first component binds to the polypeptide by detecting the absence or otherwise of a signal generated from the interaction of the first component with the polypeptide.
- 5 22. A microorganism as deposited under the accession number NCIMB 41074 at the National Collections of Industrial and Marine Bacteria Ltd.